SEQUENCE LISTING

<110> Urry, Dan

<120> Acoustic Absorption Polymers and Their Methods of Use

<130> BERL025/01US

<160> 47

<170> PatentIn version 3.0

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<400> 1

Val Pro Gly Val Gly
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<210> 2
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<400> 2

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<212> PRT
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<210> 4
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Gly Gly Phe Pro
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Gly Gly Ala Pro
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<222> (2)..(4)
<223> the residue at position 2 can be V, E, F, Y or K; the residue at

position 4 can be V, E, F or

<400> 6

Gly Xaa Gly Xaa Pro
1 5

<210> 7
<211> 6
<212> PRT
<213> Synthetic

<400> 7

Ala Pro Gly Val Gly Val
1 5

<210> 8
<211> 35
<212> PRT
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<400> 8

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 9
<211> 35
<212> PRT
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<400> 9

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Val Gly Phe Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 10
<211> 35
<212> PRT
<213> Synthetic

<400> 10

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 11
<211> 35
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<213> Synthetic

<400> 11

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 12
<211> 35
<212> PRT
<213> Synthetic

<400> 12

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 13
<211> 65
<212> PRT
<213> Synthetic

<400> 13

Gly Val Gly Ile Pro Gly Phe Gly Glu Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Phe Gly Phe Pro Gly Phe Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Phe Gly Glu Pro Gly Glu Gly Phe Pro Gly Val Gly
35 40 45

Val Pro Gly Phe Gly Phe Pro Gly Phe Gly Ile Pro Gly Val Gly Val
50 55 60

Pro
65

<210> 14
<211> 35
<212> PRT
<213> Synthetic

<400> 14

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 15
<211> 35
<212> PRT
<213> Synthetic

<400> 15

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Val Gly Phe Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 16
<211> 35
<212> PRT
<213> Synthetic

<400> 16

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val

20 25 30

Gly Val Pro
35

<210> 17
<211> 35
<212> PRT
<213> Synthetic

<400> 17

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 18
<211> 35
<212> PRT
<213> Synthetic

<400> 18

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 19
<211> 35
<212> PRT
<213> Synthetic

<400> 19

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 20
<211> 35
<212> PRT
<213> Synthetic

<400> 20

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 21
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<220>
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<222> (4)..(4)
<223> the residue at position 4 is an amino acid residue modified to h
a
ve an electroresponsive side chai

<400> 21

Val Pro Gly Xaa Gly
1 5

<210> 22
<211> 5
<212> PRT
<213> Synthetic

<400> 22

Ile Pro Gly Val Gly
1 5

<210> 23
<211> 11
<212> PRT
<213> Synthetic

<220>
<221> VARIANT
<222> (6)..(6)
<223> the residue at position 6 is S, T or Y

<400> 23

Gly Val Gly Val Pro Xaa Gly Val Gly Val Pro
1 5 10

<210> 24
<211> 5
<212> PRT
<213> Synthetic

<220>
<221> VARIANT
<222> (2)..(4)
<223> the residue at position 2 can be can be V, E, F, Y, K, S or T; t
h
e residue at position 4 can be V, E, F, I, S, T or Y; at least o
n
e of the residues at positions 2 or 4 is S, T or

<400> 24

Gly Xaa Gly Xaa Pro
1 5

<210> 25
<211> 30
<212> PRT
<213> Synthetic

<400> 25

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly

1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
20 25 30

<210> 26
<211> 66
<212> DNA
<213> Synthetic

<400> 26
gaggatccag gcgttggggt accgggtgtt ggcgatccgg gtaaaggtgt cccggggttg 60

gtgtgc 66

<210> 27
<211> 66
<212> DNA
<213> Synthetic

<400> 27
ctggatccaa cgcctgggaa tccgaaaccc ggaaagccta cacccggcac accaacgccc 60

gggaca 66

<210> 28
<211> 10
<212> PRT
<213> Synthetic

<400> 28

Gly Val Gly Val Pro Gly Tyr Gly Val Pro
1 5 10

<210> 29
<211> 45
<212> PRT
<213> Synthetic

<400> 29

Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro
35 40 45

<210> 30
<211> 30
<212> PRT
<213> Synthetic

<400> 30

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
20 25 30

<210> 31
<211> 30
<212> PRT
<213> Synthetic

<400> 31

Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
20 25 30

<210> 32
<211> 45
<212> PRT
<213> Synthetic

<400> 32

Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly Val

20 25 30

Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro
35 40 45

<210> 33
<211> 30
<212> PRT
<213> Synthetic

<400> 33

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
20 25 30

<210> 34
<211> 30
<212> PRT
<213> Synthetic

<400> 34

Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
20 25 30

<210> 35
<211> 110
<212> PRT
<213> Synthetic

<400> 35

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
50 55 60

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
65 70 75 80

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
85 90 95

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
100 105 110

<210> 36
<211> 110
<212> PRT
<213> Synthetic

<220>
<221> VARIANT
<222> (107)..(107)
<223> The residue at position 107 is associated with an SO4 ion

<400> 36

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
50 55 60

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
65 70 75 80

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
85 90 95

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
100 105 110

<210> 37

<211> 60
<212> PRT
<213> Synthetic

<400> 37

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
50 55 60

<210> 38
<211> 60
<212> PRT
<213> Synthetic

<220>
<221> VARIANT
<222> (58)..(58)
<223> The residue at position 58 is associated with an SO4 ion

<400> 38

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
50 55 60

<210> 39
<211> 45
<212> PRT
<213> Synthetic

<400> 39

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
35 40 45

<210> 40
<211> 45
<212> PRT
<213> Synthetic

<400> 40

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
35 40 45

<210> 41
<211> 30
<212> PRT
<213> Synthetic

<400> 41

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
20 25 30

<210> 42
<211> 30
<212> PRT
<213> Synthetic

<220>

<221> VARIANT
<222> (28)..(28)
<223> The residue at position 28 is associated with an SO4 ion

<400> 42

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
20 25 30

<210> 43
<211> 15
<212> PRT
<213> Synthetic

<400> 43

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
1 5 10 15

<210> 44
<211> 15
<212> PRT
<213> Synthetic

<220>
<221> VARIANT
<222> (13)..(13)
<223> The residue at position 13 is associated with an SO4 ion

<400> 44

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
1 5 10 15

<210> 45
<211> 10
<212> PRT
<213> Synthetic

<400> 45

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly

1   5   10

<210> 46
<211> 10
<212> PRT
<213> Synthetic

<220>
<221> VARIANT
<222> (9)..(9)
<223> The residue at position 9 is associated with an SO4 ion

<400> 46

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1   5   10

<210> 47
<211> 10
<212> PRT
<213> Synthetic

<220>
<221> VARIANT
<222> (9)..(9)
<223> The residue at position 9 is associated with an MgSO4 ion

<400> 47

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1   5   10